

Figure 1: 5Nines:5Minutes High Availability Configuration

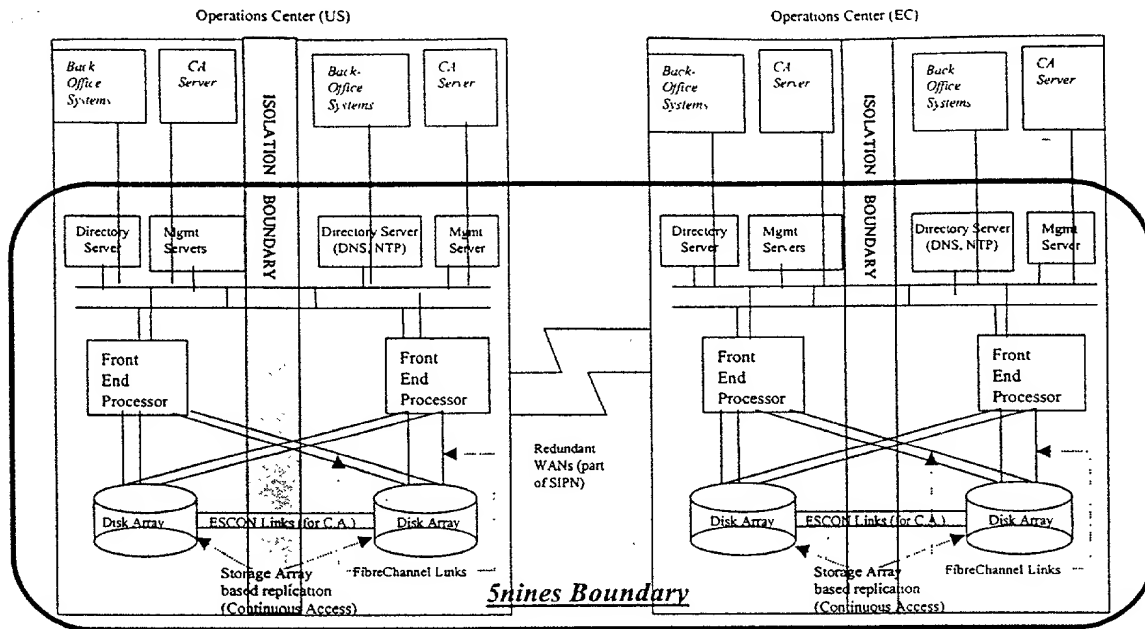


Figure 2: 5nines Architecture Overview – Physical Systems View

The components that are described in this document map onto the systems shown above as follows:

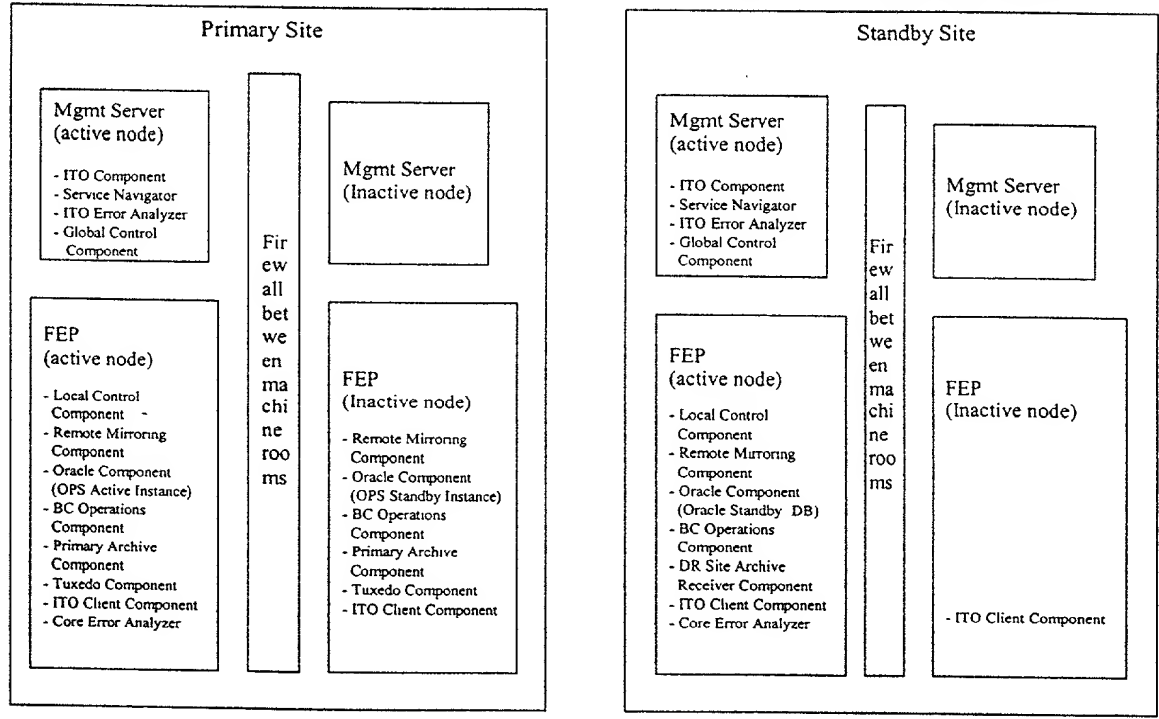


Figure 3: Mapping of Control Components to Physical Systems

Sample Service Navigator Displays

HP OpenView IT/Operations [15.13.109.71] [opc_odm]

File Edit View Actions Window Help

Operation View

Nodes

- Message Groups
- Applications
- Services
 - Site US
 - Site NL
 - FEP Service
 - US Site
 - Global Control US
 - Primary US FEP Service
 - DR US FEP Service
 - NL Site
 - Global Control NL
 - Primary NL FEP Service
 - Cluster NL
 - OPS DB Instance 1
 - OPS DB Instance 2
 - System 2
 - OPS Archiver Instance 1
 - OPS Archiver Instance 2
 - Tuxedo Instance 1
 - Tuxedo Instance 2
 - Tuxedo Access Service
 - Remote Mirroring
 - Business Copy
 - DR NL FEP Service
 - Cluster NL
 - System 1
 - System 2
 - OPS Database
 - OPS Archive Receiver
 - Remote Mirroring Sender
 - Business Copy

Active Messages

Severity	SU/LAONE	Date	Time	Node	Application	MsgOp
Major	--X----	11/19/99	2:23:57 PM	hp5902.cu...	SNMPTraps	SNMP 15
Major	--X----	11/19/99	2:19:47 PM	hp5902.cu...	SNMPTraps	SNMP 15
Warning	--X----	11/19/99	11:58:00 AM	hp5902.cu...	HP IT/Oper...	OpC opC
Warning	--X----	11/19/99	9:29:27 AM	hp5902.cu...	HP IT/Oper...	OpC opC
Major	-X-----	11/19/99	5:22:21 AM	hp5902.cu...	state	state o
Major	-X-----	11/19/99	5:22:11 AM	hp5902.cu...	state	state o
Major	-X-----	11/19/99	4:37:59 AM	hp5902.cu...	state	state o
	-X-----	11/19/99	4:06:23 AM	hp5902.cu...	state	state o
Major	-X-----	11/19/99	3:38:03 AM	hp5902.cu...	state	state o
Major	-X-----	11/19/99	3:37:52 AM	hp5902.cu...	state	state o
Major	-X-----	11/19/99	3:30:57 AM	hp5902.cu...	state	state o
Normal	-----	11/19/99	3:19:30 AM	ws719432...	Security	Security Log
Unknown	-X-----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS
Unknown	-X-----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS
Unknown	-X-----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS
Unknown	-X-----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS
Unknown	-X-----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS

Ready

Browser displays max 50 messages

Figure 4: Application Service View

FOI 90-4046/860

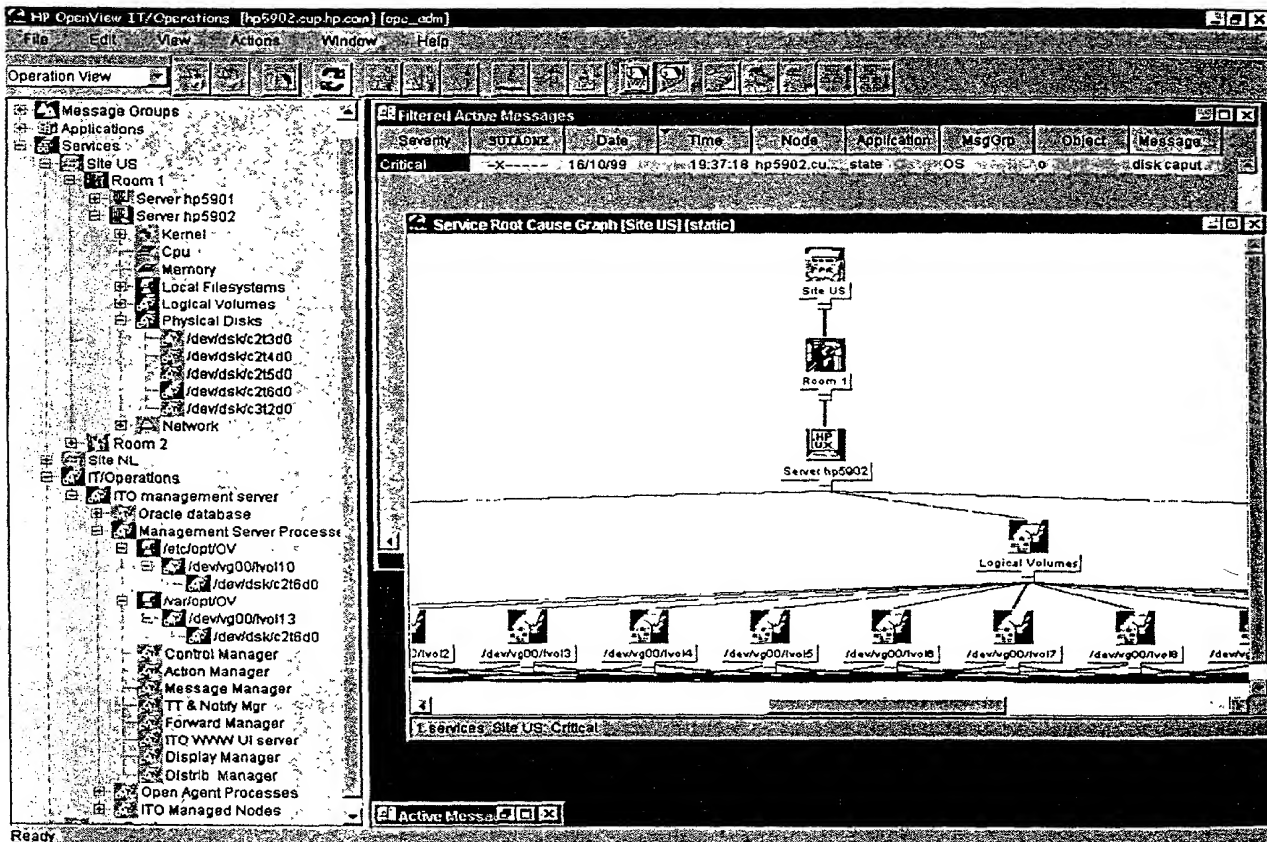


Figure 5 Infrastructure Service View

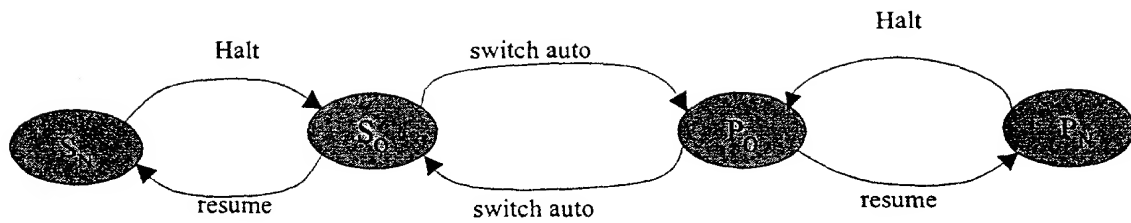
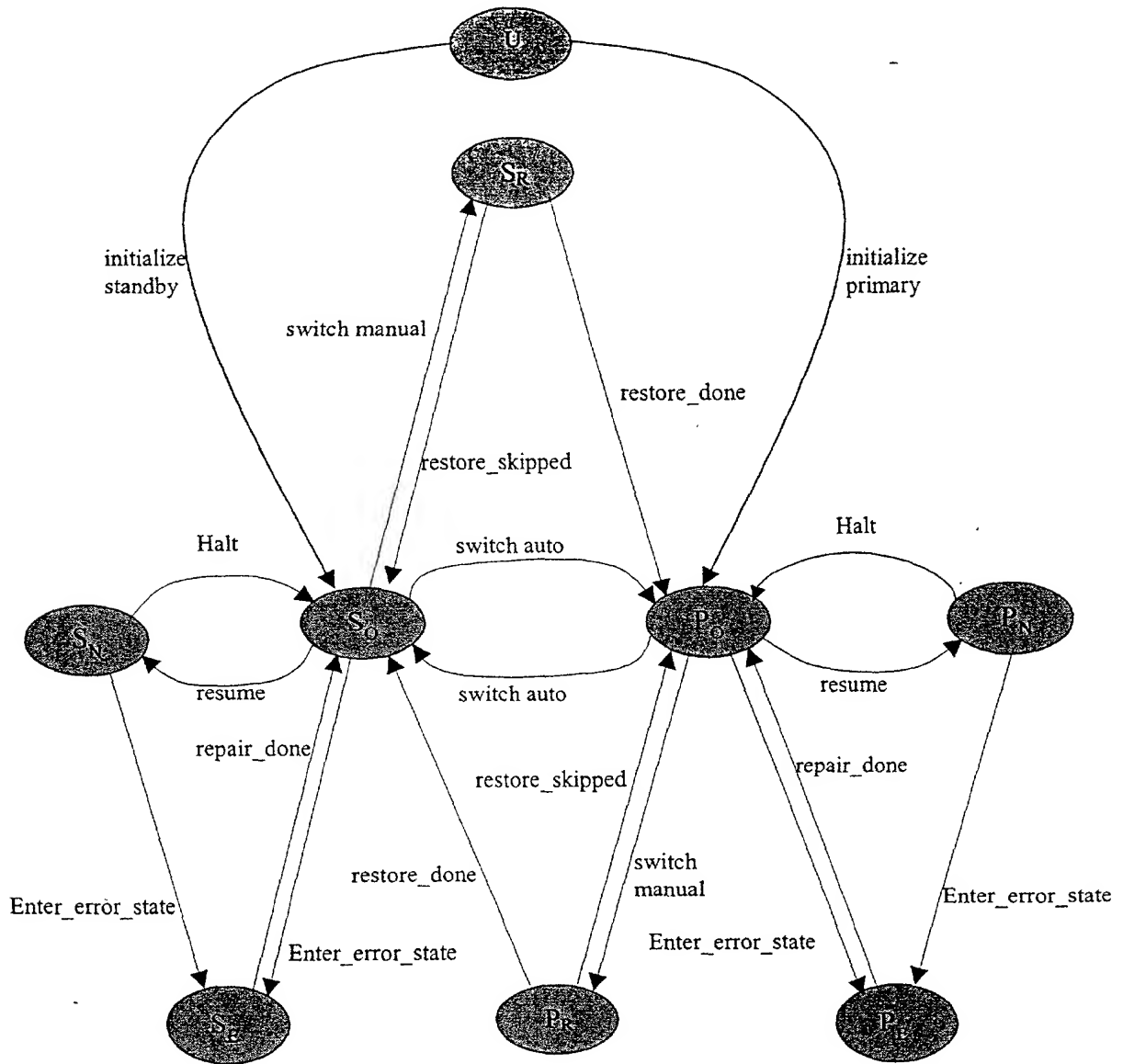


Figure 6: Simplified per-site State Digram
(Note on symbols: S_N = Standby Normal, S_O = Standby Offline, P_O = Primary Offline, P_N = Primary Normal.)



Service Type

U – Uninitialized or ‘big bang’,

P – Primary, S – Standby

Service State (for P and S)

N – Normal, O – Offline

R – Restore, E – Error

Figure 7: LCC State Transitions

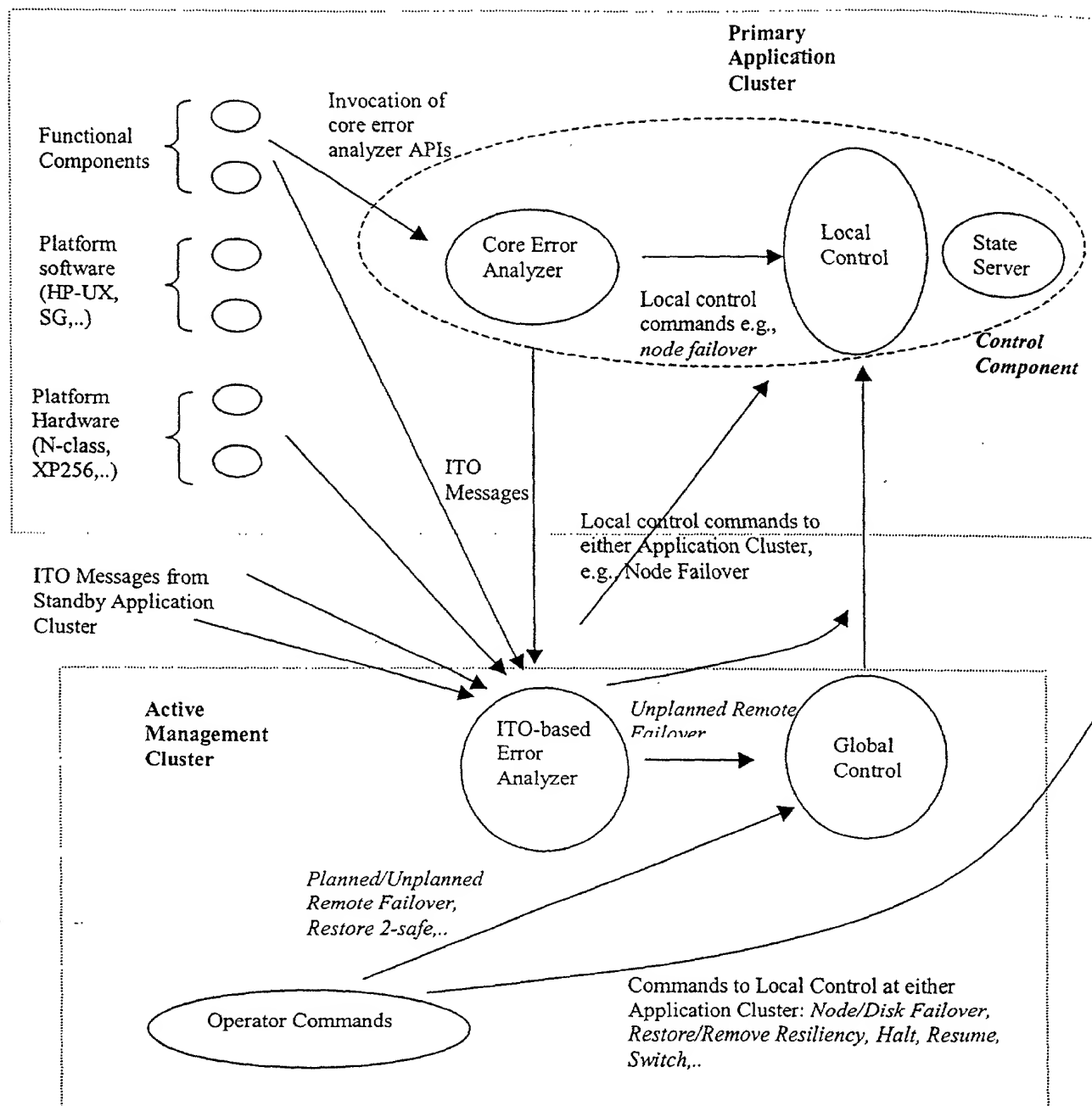


Figure 8: Local Control Environment

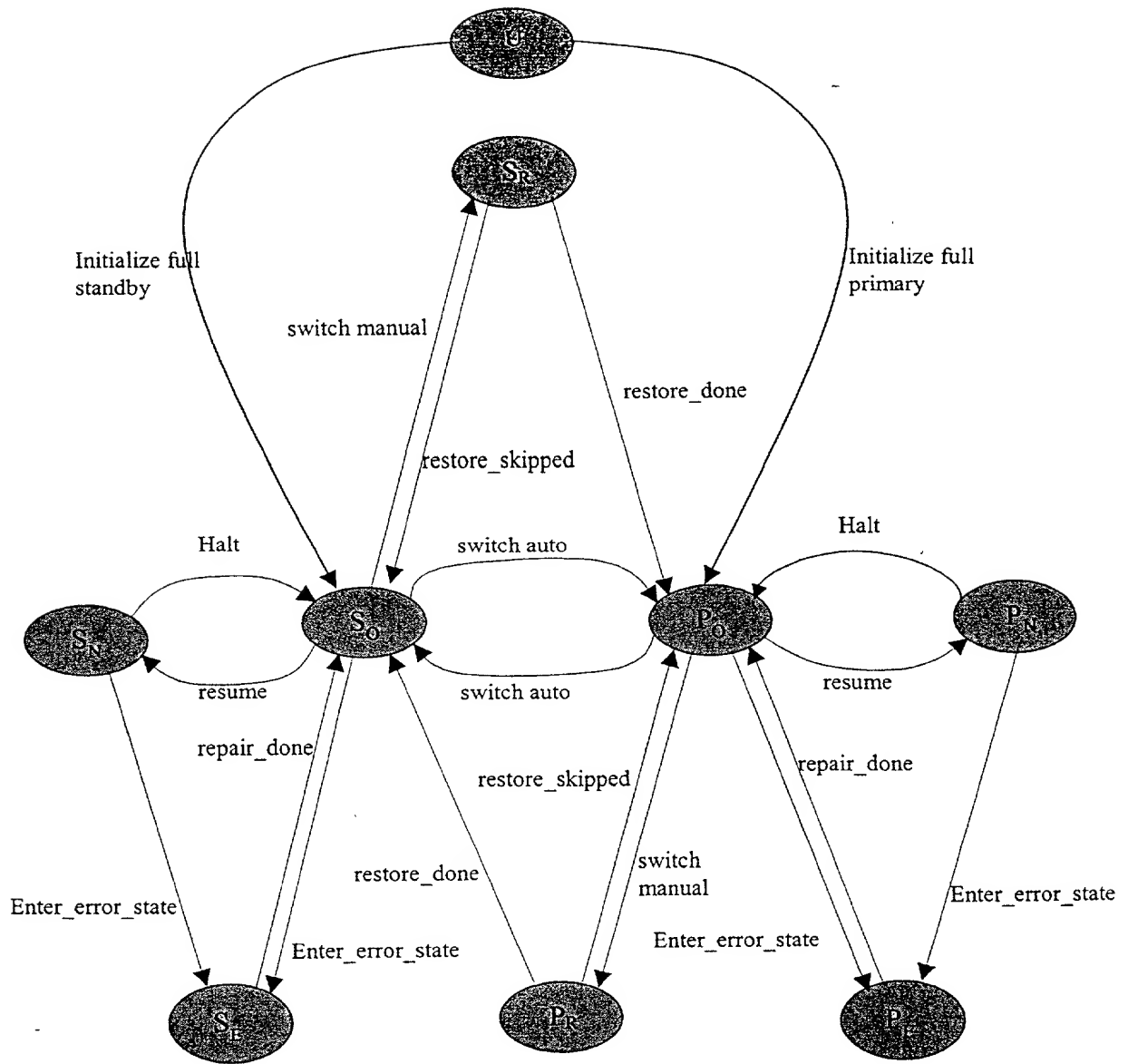


Figure 9: LCC State Transitions